WHAT IS CLAIMED IS:

1. A device for use with a metering device for measuring analyte levels, said device comprising:

a cartridge;

a plurality of analyte detecting members mounted on said cartridge.

2. The device of claim 1 wherein said cartridge does not include any penetrating members.

3. The device of claim 1 wherein said cartridge has a radial disc shape.

4. The device of claim 1 wherein said cartridge is sized to fit withn said metering device.

5. The device of claim 1 wherein said analyte detecting members wherein only a working electrode is covered with a glucose oxidase.

6. The device of claim 1 wherein said analyte detecting members include working and counter electrodes formed from one of the following: Ag or Ag/Cl.

7. The device of claim 1 wherein said analyte detecting members have different sensitivity ranges enhancing the overall range of sensitivity of an array of such members when used on a single fluid sample.

8. The device of claim 1 wherein said analyte detecting members can provide their analysis requiring no more than one of the following volumes: 300, 200, 100, 60, 50, 30, 20, 15, 10, and 5 nanoliters.

9. The device of claim 1 wherein said analyte detecting member comprises a working electrode, a reference electrode, and counter electrode, wherein only the working electrode is covered with a redox mediator.

10. The device of claim 1 said analyte detecting members use an amperometric measurement technique.

11. The device of claim 1 further comprising a mesh configured fluid spreader positioned over said analyte detecting member.

12. The device of claim 1 further comprising a hydrophilic membrane positioned over said analyte detecting member. 4.53 cubic centimeters

13. The device of claim 1 wherein the cartridge has a higher density of analyte detecting members than 4.53 cubic centimeters divided by 17 per single analyte detecting member.

14. The device of claim 1 wherein the cartridge has a higher density of analyte detecting members than 4.53 cubic centimeters divided by 20 per single analyte detecting member.

15. The device of claim 1 wherein the cartridge has a higher density of analyte detecting members than 4.53 cubic centimeters divided by 25 per single analyte detecting member.

16. The device of claim 1 wherein the cartridge has a higher density of analyte detecting members than 4.53 cubic centimeters divided by 50 per single analyte detecting member.

17. A device for use with a body fluid sampling device for extracting bodily fluid from an anatomical feature, said device comprising:
a cartridge having a plurality of sample chambers;
a plurality of analyte detecting members;
wherein at least one of said analyte detecting members forms a portion of one wall of one of said plurality of sample chambers.

18. The device of claim 17 wherein said cartridge comprises a connector disc and an analyte detecting member disc.

19. A device for use with a body fluid sampling device for extracting bodily fluid from an anatomical feature, said device comprising:
a cartridge having a plurality of sample chambers;

a plurality of penetrating members each at least partially contained in said cavities of the single cartridge wherein the penetrating members are slidably movable to extend outward from openings on said cartridge to penetrate tissue;

a plurality of analyte detecting members;

wherein said chamber is positioned substantially adjacent an outer periphery of said cartridge;

at least one opening in one of said sample chambers leading fluid along a fluid path towards one of said analyte detecting members.

20. The device of claim 19 wherein said fluid path contains a channel sized to hold no more than 1 microliter.

21. A method for determining a concentration of an analyte in body fluid, comprising:

collecting a sample of body fluid of about 500 nL or less;

covering an electrochemical sensor with at least a portion of the sample;

determining the concentration of the analyte in the sample using a potentiometric technique.

22. A device comprising:

a plurality of analyte detecting members defining an array;

wherein at least two of said members have different sensitivity ranges enhancing the overall range of sensitivity of the array when used on a sample fluid.

23. A device comprising:

a single cartridge having a plurality of cavities;

a plurality of analyte detecting members defining an analyte array;

wherein at least two of said sensors have different sensitivity ranges enhancing the overall range of sensititiviy of the array when used on a sample fluid;

wherein said plurality of cavities each has one analyte array.

24. A system comprising:

an electric penetrating member driver;

a single cartridge having a plurality of cavities;

a plurality of penetrating members housed in said cavities and individually movable by said driver to penetrate tissue;

a plurality of analyte detecting members defining an analyte array;

wherein at least two of said sensors have different sensitivity ranges enhancing the overall range of sensitivity of the array when used on a sample fluid;

wherein said plurality of cavities each has one analyte array.